



FE 6085 (US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

**Diego Brita et al.**

Serial No.: **10/537,077**

Filed: **June 1, 2005**

For: **CATALYST COMPONENTS FOR  
THE POLYMERIZATION OF  
OLEFINS**

Examiner: **Ling-Sui Choi**

Art Unit: **1713**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

July 25, 2007

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

It is requested that the documents listed on the attached Information Disclosure Citation form PTO-1449 be considered by the Patent Examiner in connection with the above-identified application and be made of record therein.

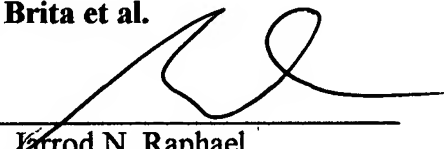
Independent consideration and acknowledgement of the enclosed documents are respectfully requested.

The Commissioner is hereby authorized to charge USPTO deposit account 08-2336 any payment due and to credit any overpayment thereto.

Respectfully submitted,

**Diego Brita et al.**

By: \_\_\_\_\_

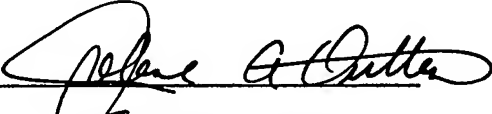
  
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I hereby certify that this correspondence is being deposited with sufficient postage thereon with the United States Postal Service as first class mail on July 25, 2007, in an envelope addressed to:

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July 25, 2007

Date of Signature

 <b>FORM PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b>		Atty Docket <b>FE 6085 (US)</b>		Serial No. <b>10/537,077</b>			
		Applicant <b>Diego Brita et al.</b>					
		Filing Date <b>June 1, 2005</b>		Group Art Unit <b>1713</b>			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Issue Date	Name	Class	Sub- Class	Filing Date
	AA	7,091,289	08/15/06	Wang et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub- Class	Trans- lation
	AB	2002120861 (corresponds to WO 2004/033504)	06/06/02	CN			Abstract
	AC	2004/033504 (corresponds to CN 2002120861)	04/22/04	WO			w/Abstract
Examiner				Date Considered			
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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DIALOG(R)File 351: Derwent WPI.

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WPI Acc no: 2004-237742/200422

XRAM Acc no: C2004-092915

**Catalyst component for homopolymerization or co-polymerization of ethylene, comprises electron donor compound(s), e.g. aliphatic ethers and cyclic ethers, supported on composition containing magnesium and titanium**

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Inventor: CUI H; GUO Z; KOU P; LI T; LI X; PAN L; TAN Z; WANG Z; ZHANG K

Patent Family ( 10 patents, 100 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040030064	A1	20040212	US 2003455256	A	20030605	200422	B
CN 1463991	A	20031231	CN 2002120861	A	20020606	200422	E
WO 2004033504	A1	20040422	WO 2003CN436	A	20030604	200428	E
AU 2003246109	A1	20040504	AU 2003246109	A	20030604	200465	E
KR 2005016498	A	20050221	KR 2004719658	A	20041203	200542	E
DE 10392773	T5	20050804	DE 10392773	A	20030604	200551	E
			WO 2003CN436	A	20030604		
AU 2003246109	A8	20040504	AU 2003246109	A	20030604	200559	E
JP 2005529230	W	20050929	WO 2003CN436	A	20030604	200568	E
			JP 2004542145	A	20030604		
CN 1194993	C	20050330	CN 2002120861	A	20020606	200634	E
US 7091289	B2	20060815	US 2003455256	A	20030605	200654	E

Priority Applications (no., kind, date): US 2003455256 A 20030605; CN 2002120861 A 20020606

#### Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20040030064	A1	EN	12	0	
WO 2004033504	A1	ZH			
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW				
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				
AU 2003246109	A1	EN			Based on OPI patent WO 2004033504
DE 10392773	T5	DE			PCT Application WO 2003CN436
					Based on OPI patent WO 2004033504

AU 2003246109	A8	EN		Based on OPI patent	WO 2004033504
JP 2005529230	W	JA	25	PCT Application	WO 2003CN436
				Based on OPI patent	WO 2004033504

**Alerting Abstract US A1**

**NOVELTY** - Catalyst component comprises electron donor compound(s) supported on composition containing magnesium and titanium. The electron donor compound is aliphatic ethers, cyclic ethers, aromatic ethers, aliphatic ketones or alicyclic ketones.

**DESCRIPTION** - The composition is prepared by dissolving magnesium compound into solvent system to form homogeneous solution and contacting solution with titanium compound and precipitation aid to precipitate the composition.

**INDEPENDENT CLAIMS** are also included for:

- A. preparation of a catalyst component, comprising dissolving a magnesium compound into a solvent system containing an organic epoxy compound and an organophosphorus compound to form a homogeneous solution; contacting the solution with a titanium compound in the presence of a precipitation aid to precipitate a solid; treating the obtained solid with an electron donor compound and, optionally, the titanium compound to obtain a product; and optionally, activating the resultant product with an activator;
- B. a catalyst comprising the reaction product of catalyst component; and organoaluminum as cocatalyst component;
- C. homopolymerization of ethylene or co-polymerization of ethylene with at least one 3-8C alpha-olefin, comprising contacting ethylene or ethylene and at least one 3-8C alpha-olefin with the catalyst under polymerization conditions.

**USE** - The catalyst is for homopolymerization or co-polymerization of ethylene (claimed). It is used for ethylene slurry or gas phase polymerization, especially for fluid bed gas phase process of ethylene polymerization in which catalyst is fed in the form of slurry.

**ADVANTAGE** - The catalyst is capable of producing polymer having low content of fine powder, has relatively narrow distribution of particle size and appropriate average particle size, and is high in catalytic activity.